

AMENDED WELL LOG

Well Identification

WIN: 441992

Owner

Note any changes

Contact Person/Engineer:

Mark Chandler 801-556-1765

Well Location

Note any changes

S 2720 W 1145 from the NE corner of section 01, Township 7N, Range 1E, SL B&M

Location Description: (address, proximity to buildings, landmarks, ground elevation, local well #)

Drillers Activity

Start Date August 2018

Completion Date: June 2019

Check all that apply: ☒ New ☐ Repair ☐ Deepen ☐ Clean ☒ Replace ☐ Public Nature of Use: _____

If a replacement well, provide location of new well. _____ feet north/south and _____ feet east/west of the existing well.

DEPTH (feet) FROM TO		BOREHOLE DIAMETER (in)	DRILLING METHOD	DRILLING FLUID
0	8	70"	Reverse Rotary	Bentonite
8	20	58"	"	"
20	40	40"	"	"
40	200	30"	"	* 200' TO 1150' Borehole is 18"

Well Log

Well Log		WATER	PERMEABLE	UNCONSOLIDATED						CONSOLIDATED		DESCRIPTION AND REMARKS (e.g., relative %, grain size, sorting, angularity, bedding, grain composition density, plasticity, shape, cementation, consistency, water bearing, odor, fracturing, mineralogy, texture, degree of weathering, hardness, water quality, etc.)
DEPTH (feet) FROM	TO			CLAY	SAND	GRAVEL	COBBLES	BOULDER	OTHER	ROCK TYPE	COLOR	
0	90							✓	Crushed rock	Black		
90	95				✓✓				Coarse	Multi		
95	200							✓	crushed rock	Black		
200	270				✓			✓	crushed rock w/ sand	Blk/Gray		
270	300				✓✓			✓	Rock crushing	Brown Black		
300	330				✓✓				Crushed rock	Grey Black		
330	360								crushed	Gray	Limestone	
360	380				✓✓				Some Sand	Gray		
380	540					✓			Gravel	Gray Black		
540	590				✓✓			✓		Black		

RECEIVED
AUG 12 2019
WATER RIGHTS
SALT LAKE

RECEIVED
JUL 15 2019
WATER RIGHTS

Static Water Level

Date 6-12-19 Water Level 254 feet Flowing? ☐ Yes ☒ No
Method of Water Level Measurement Electric Sounding Flowing, Capped Pressure N/A PSI
Point to Which Water Level Measurement was Referenced Ground level Elevation _____
Height of Water Level reference point above ground surface 0 feet Temperature 56 degrees ☐ C

SCANNED

Well Log

Construction Information

DEPTH (feet)		CASING			DEPTH (feet)		<input checked="" type="checkbox"/> SCREEN <input type="checkbox"/> PERFORATIONS <input type="checkbox"/> OPEN BOTTOM		
FROM	TO	CASING TYPE AND MATERIAL/GRADE	WALL THICK (in)	NOMINAL DIAM. (in)	FROM	TO	SCREEN SLOT SIZE OR PERF SIZE (in)	SCREEN DIAM. OR PERF LENGTH (in)	SCREEN TYPE OR NUMBER PERF (per round/interval)
0	8	Conductor	.312	60"	700	1100	5 Swire	Wrap 12"	.80
0	20	Conductor	.312	48"					
0	40	Conductor	.312	36"					
0	200	Conductor	.312	20"					
0	697	Casing	.312	12 3/4"					

Well Head Configuration: 3 ft Stick up

Access Port Provided? ☒ Yes ☐ No

Casing Joint Type: Butt

Perforator Used: N/A

Was a Surface Seal Installed? ☒ Yes ☐ No

Depth of Surface Seal: 200 feet

Drive Shoe? ☐ Yes ☒ No

Surface Seal Material Placement Method: pumped w/ Trimie

Was a temporary surface casing used? ☐ Yes ☒ No If yes, depth of casing: _____ feet diameter: _____ inches

DEPTH (feet)		SURFACE SEAL / INTERVAL SEAL / FILTER PACK / PACKER INFORMATION		
FROM	TO	SEAL MATERIAL, FILTER PACK and PACKER TYPE and DESCRIPTION	Quantity of Material Used (if applicable)	GROUT DENSITY (lbs./gal., # bag mix, gal./sack etc.)
0	1120	Gravel Pack		
0	200	Surface Seal	20 cu yd	12 sk Grout

Well Development and Well Yield Test Information

DATE	METHOD	YIELD	Units Check One		DRAWDOWN (ft)	TIME PUMPED (hrs & min)
			GPM	CFS		
6-12-19	Step test	30	X		150'	2.5

Pump (Permanent)

Pump Description: _____ Horsepower: _____ Pump Intake Depth: _____ feet

Approximate Maximum Pumping Rate: _____ Well Disinfected upon Completion? ☐ Yes ☐ No

Comments

Description of construction activity, additional materials used, problems encountered, extraordinary Circumstances, abandonment procedures. Use additional well data form for more space.

Well Driller Statement

This well was drilled and constructed under my supervision, according to applicable rules and regulations, and this report is complete and correct to the best of my knowledge and belief.

Name ZIM INDUSTRIES INC

(Person, Firm, or Corporation - Print or Type)

License No. 697

Signature _____

Well Driller

Date _____

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Well Log

Construction Information (con't)	
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[illegible][illegible]

Comments (con't)	
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Well Driller Statement	This well was drilled and constructed under my supervision, according to applicable rules and regulations.
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This well was drilled and constructed under my supervision, according to applicable rules and regulations, and this report is complete and correct to the best of my knowledge and belief.

Name	ZIM INDUSTRIES INC	License No.	697
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License No. 697

Signature Ruth Summers Date 7-11-19

Date 7-11-19